AL532

Service Manual




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WARNING

To prevent from fire or shock hazard,do not expose monitor to any rain or any form of water.High voltage is inside the monitor so please do not remove the back cover of the cabinet if you are not a qualified monitor engineer.Contact the local dealer or the nearest **Acer** branch office if you need help.

A. IMPORTANT SAFETY INSTRUCTION

Prior to using this service manual,please ensure that you have carefully followed all the procedures outlined in the user's manual for this product.

1. Read all of these instructions.
2. Save these instructions.
3. Follow all warnings and instructions a marked on the product.
4. Unplug this product from the wall outlet before cleaning.Do not use liquid cleaners or aerosol cleaners, use a damp cloth for cleaning.
5. Do not use this product near water.
6. Do not place this product on an unstable cart,stand or tablle.The product may fall,causing serious damage to the product.
7. Slots and openings in the cabinet and the back or bottom are provided for ventilation,to ensure reliable operation of the product and to protect it from overheating,those openings must not be blocked or covered.The openings should never be blocked by placing the product on a bed,sofa, rug, or other similar surface.This product should not be placed in a built-in installation less proper ventilation is provided.
8. This products should be operated from the type of power source indicated on the marketin label. If you are not sure of the type of power available, consult your dealer or local power company
9. This product is equipped with a 3-wire grounding type plug,a plug having a third (grounding) pin.This plug will only fit into a grounding-type power outlet.This is a safety feature,if you are unable to insert the plug into the outlet,contact your electrician to replace your obsolete outlet.Do not defeat the purpose of the grounding-type plug.
10. Do not allow anything to rest on the power cord.Do not locate this product where persons will walk on the cord.
11. If an extension cord is used with this product,make sure that the total of the ampere ratings on the product plugged into the extension cord to the waplugged into outlet does not exceed 15 ampere.
12. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock.Never spill liquid of any kind on the product.
13. Do not attempt to service this product yourself,as opening or removing covers may expose you to dangerous voltage points or other risks.Refer all servicing to service personnel.
14. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions.
  a. When the power cord or plug is damaged or frayed.
  b. If liquid has been spilled into the product.
  c. If the product has been exposed to rain or water.
  d. If the product does not operate normally,when the operating instructions are followed.Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extension work by a qualified technician to restore the product to normal operation.
  e. If the product has been dropped or the cabinet has been damaged.
  f. If the product exhibits a distinct change in performance,indicating a need for service.

B. SPECIFICATIONS

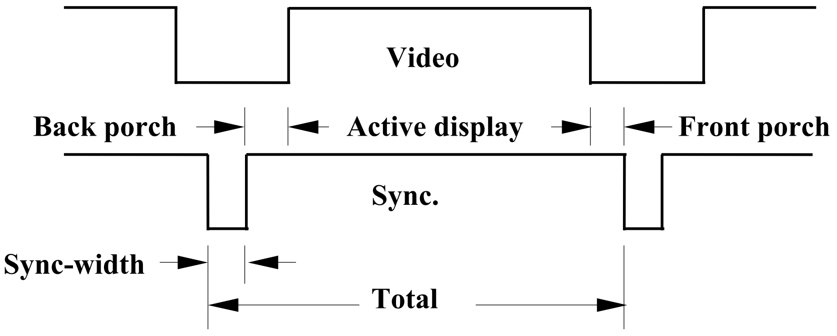
1. Maximum Resolution	1024 x 768 @ 75Hz
2. Recommend Resolution	1024 x 768 @ 60Hz
3. Synchronization Range	
Horizontal	31 – 60 KHz
Vertical	56– 75 Hz
4. Active Display Area	304.1mm (H) x 228.1mm (V)
5. Dot Pitch	0.297(H) x 0.297(V) mm
6. Support display colors	16.7M color
7. Contrast Ratio (Typical)	500
8.Luminance of White	300cd/m²
9. Bandwidth	80MHz
10. User Control	4 Key Switch
11. OSD Function	Brightness, Conrast, H-Position, V-Position, H-Size, Phase, Color Select, Auto, Reset, Language, OSD Adjust, Exit
12. View Angle	
Horizontal	140 Degrees
Vertical	120 Degrees
13. Power Source	100 – 240 Vac 60 / 50 Hz
14. Power Consumption	36W (max.)
15. Connection Type	15 Pin D Type
16. Input Signal	
Video	Analog R.G.B. , 0.7Vp-p / 75 Ohms
Sync.	TTL level,positive or negative polarity
17. Color Temperature	Cool / Warm
18. Dimension (WxHxD)	418mm x 421mm x 188mm
19. Monitor Weight	3.3 Kg
20. Base Operation	
Tilt	0 / + 15 degree
21. Power Saving	
ON	< 36W
STAND BY	< 5W
OFF	< 5W

22. Signal Connector Pin Assignment
Pin No.

1. Red	9. $5V_{DC}$
2. Green	10. Sync. Ground
3. Blue	11. Ground
4. Ground	12. SDA (For DDC)
5. Self Test	13. Horizontal Sync.
6. Red Ground	14. Vertical Sync.
7. Green Ground	15. SCL (For DDC)
8. Blue Ground	

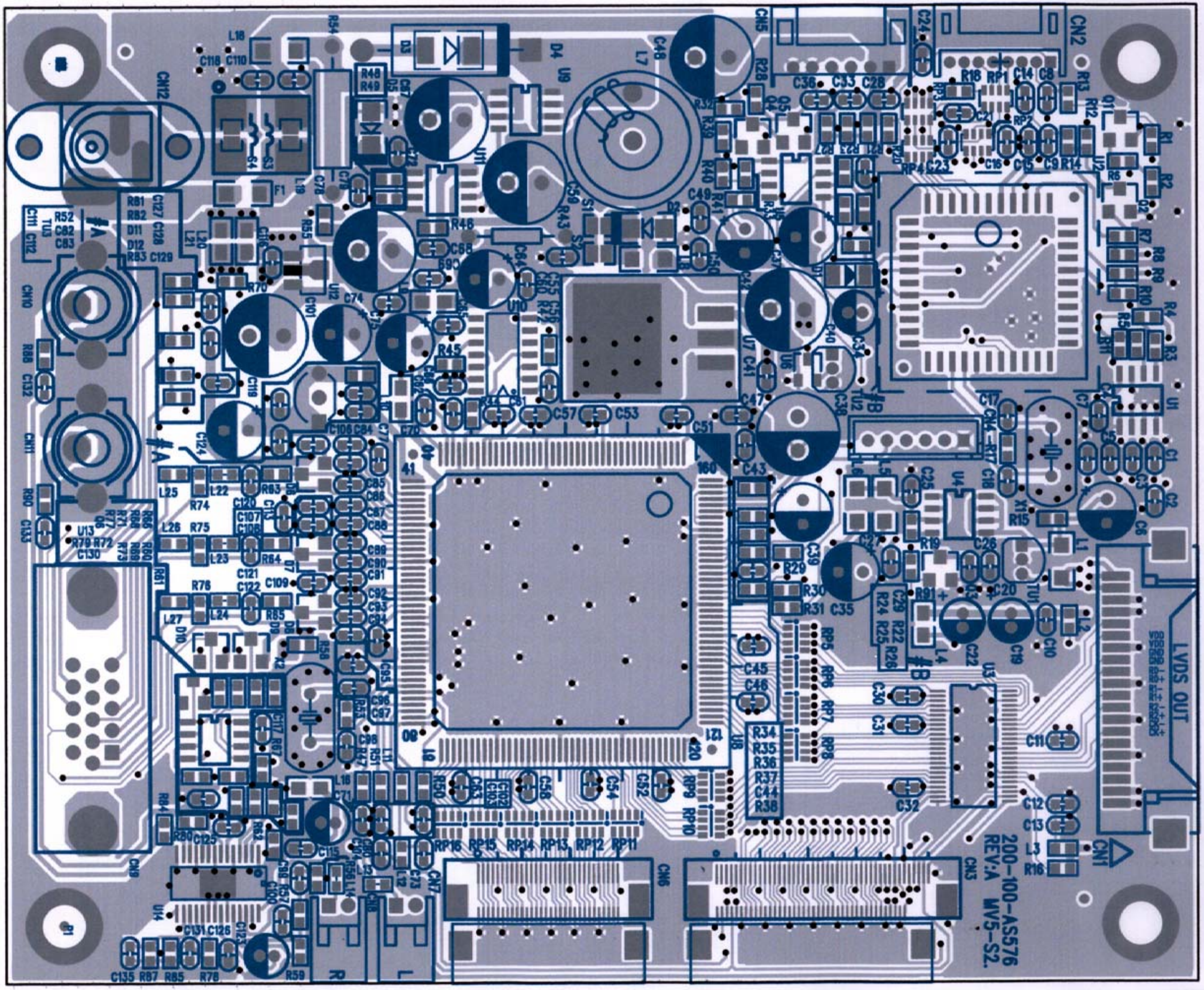
23. Audio signal
3.5Φ stereo phone jack
Input Sensitivity : 200mV
2+2W 8Ω Speaker

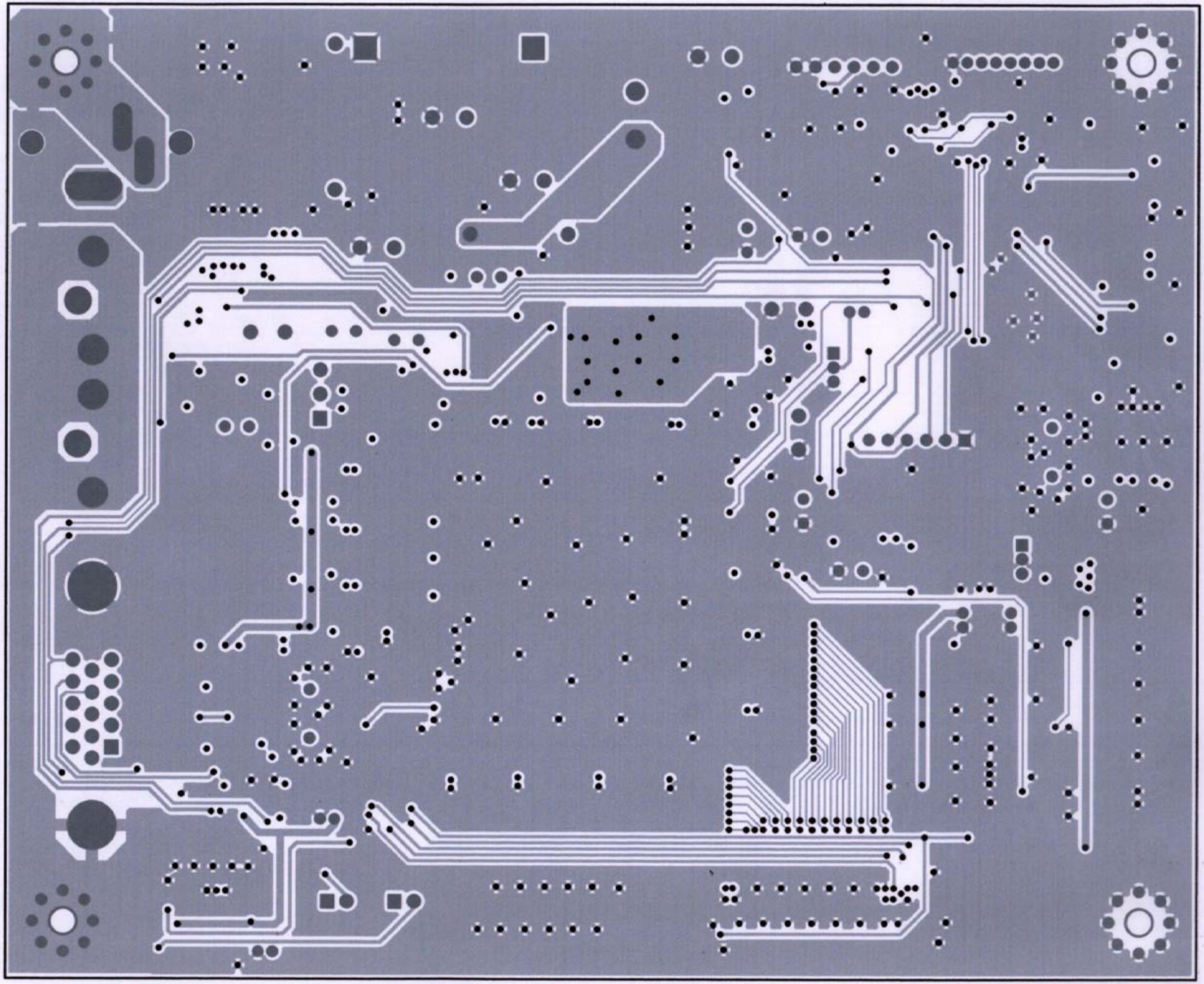
C.TIMING CHART



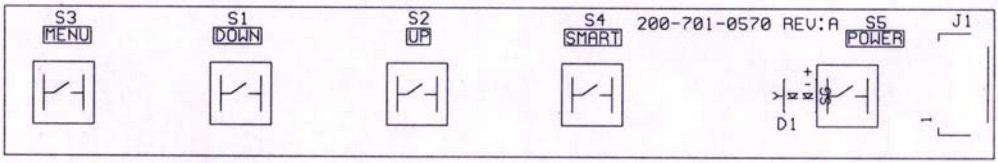
Modes \ Preset	VGA 720X400	VGA 640X480	VESA 640X480	VESA 640X480	VESA 800X600	VESA 800X600
Pixel clock (MHz)	28.325	25.175	31.500	31.500	36.000	40.000
H-Frequency (KHz)	**31.472**	**31.469**	**37.861**	**37.500**	**35.156**	**37.879**
H-Total (µs)	31.774	31.778	26.413	26.667	28.444	26.400
H-Active Display (µs)	25.419	25.422	20.317	20.317	22.222	20.000
H-Blanking (µs)	6.355	6.356	6.095	6.349	6.222	6.400
Front Porch (µs)	0.635	0.636	0.762	0.508	0.667	1.000
H-Sync-width (µs)	3.813	3.813	1.270	2.032	2.000	3.200
H-Back Porch (µs)	1.906	1.907	4.063	3.810	3.556	2.200
V-Frequency (Hz)	**70.1**	**59.94**	**72.81**	**75.0**	**56.25**	**60.3**
V-Total (ms)	14.267	16.683	13.735	13.333	17.778	16.579
V-Active Display (ms)	12.710	15.253	12.678	12.800	17.067	15.840
V-Blanking (ms)	1.557	1.430	1.057	0.533	0.711	0.739
V-Front Porch (ms)	0.413	0.318	0.238	0.027	0.028	0.026
V-Sync-width (ms)	0.064	0.064	0.079	0.080	0.057	0.106
V-Back Porch (ms)	1.080	1.049	0.740	0.427	0.626	0.607
H/V Sync. Polarity	− +	− −	− −	− −	+ +	+ +
Interlace	NONE	NONE	NONE	NONE	NONE	NONE

Preset / Modes	VESA 800X600	VESA 800X600	VESA 1024X768	VESA 1024X768	VESA 1024X768
Pixel clock (MHz)	50.000	49.500	65.000	75.000	78.750
H-Frequency (KHz)	**48.077**	**46.875**	**48.363**	**56.476**	**60.023**
H-Total (µs)	20.800	21.333	20.677	17.707	16.660
H-Active Display (µs)	16.000	16.162	15.754	13.563	13.003
H-Blanking (µs)	4.800	5.172	4.923	4.053	3.657
Front Porch (µs)	1.120	0.323	0.369	0.320	0.203
H-Sync-width (µs)	2.400	1.616	2.092	1.813	1.219
H-Back Porch (µs)	1.280	3.232	2.462	1.920	2.235
V-Frequency (Hz)	**72.2**	**75.0**	**60.0**	**70.1**	**75.0**
V-Total (ms)	13.853	13.333	16.666	14.272	13.328
V-Active Display (ms)	12.480	12.800	15.880	13.599	12.795
V-Blanking (ms)	1.373	0.533	0.786	0.673	0.533
V-Front Porch (ms)	0.770	0.021	0.062	0.053	0.017
V-Sync-width (ms)	0.125	0.064	0.124	0.106	0.050
V-Back Porch (ms)	0.478	0.448	0.600	0.513	0.466
H/V Sync. Polarity	+ +	+ +	− −	− −	+ +
Interlace	NONE	NONE	NONE	NONE	NONE

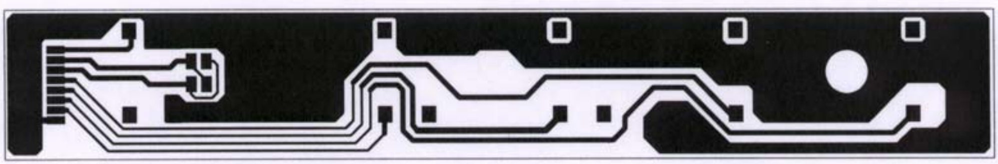

200-100-AS576
REV:A MV5-S2.
LVDS OUT
CN1
CN2
CN3
CN5
CN6
CN7
CN9
CN10
CN11
CN12
U3
U4
U7
U8
U9
U10
U11
U12
U13
U14
L7
F1
X1
RP1
RP4
RP5
RP6
RP7
RP8
RP9
RP10
RP11
RP12
RP13
RP14
RP15
RP16
#A
#B
R
L



CONTROL BOARD (Component Side)

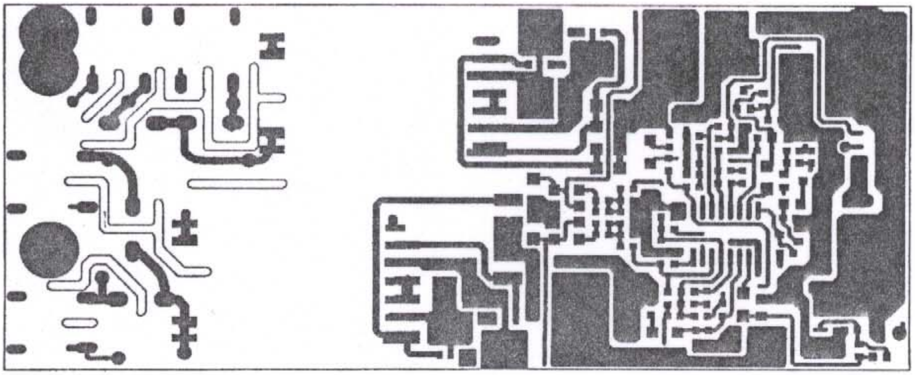


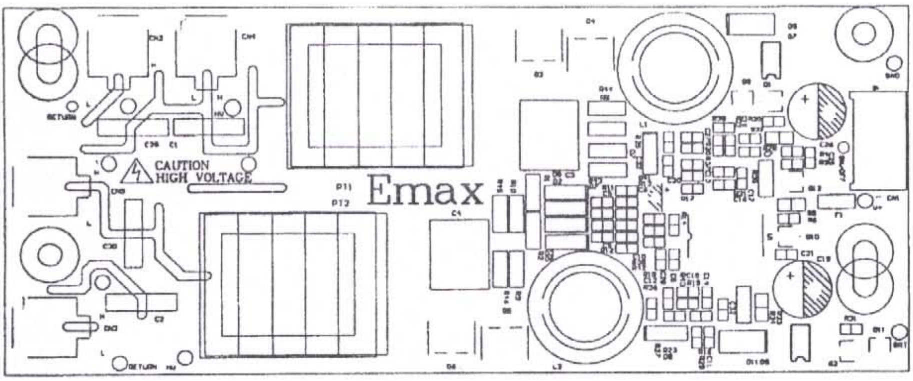
CONTROL BOARD (Solid Side)

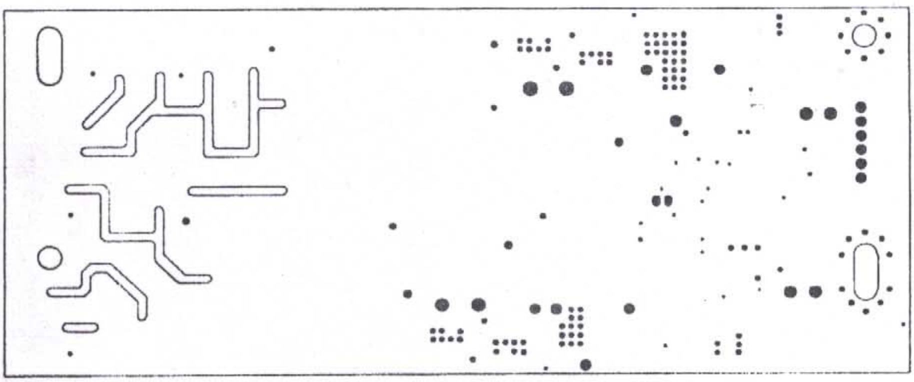


Specification

Part Name:	LCD PANEL DC TO AC INVERTER	Page:	1	of	2
Model No:	PLCD2615404	Date:	AUG / 27 / 2002		



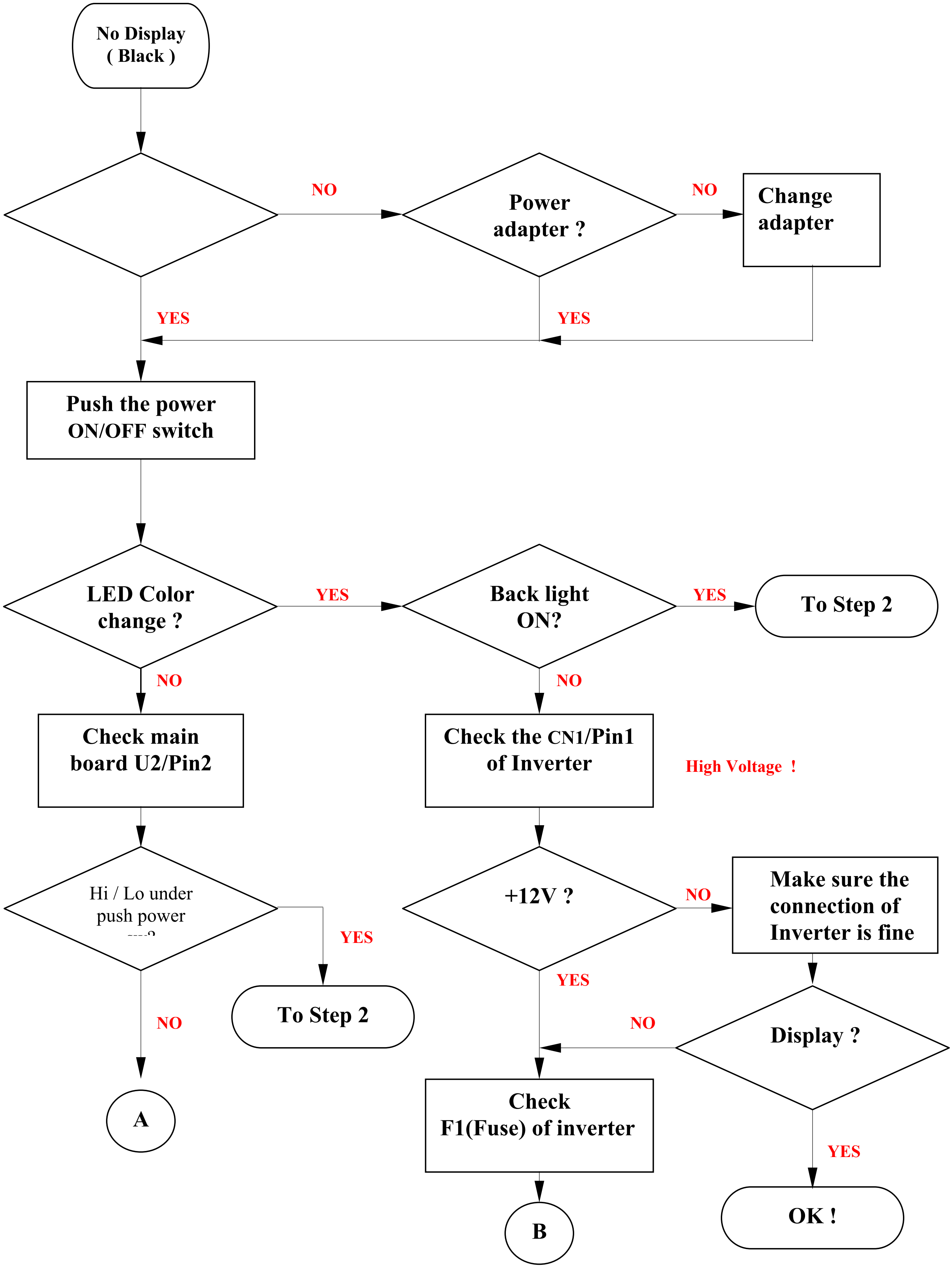


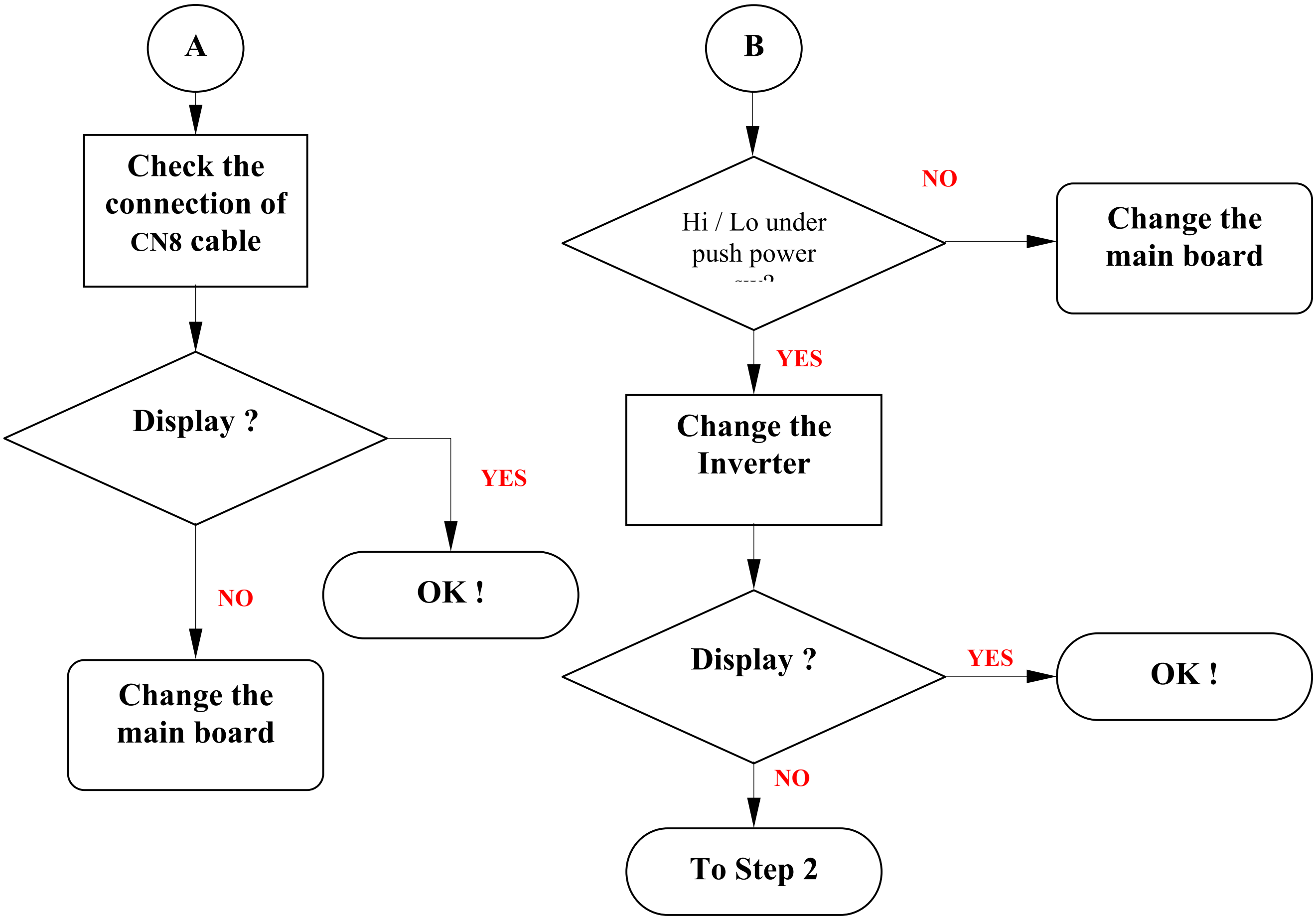


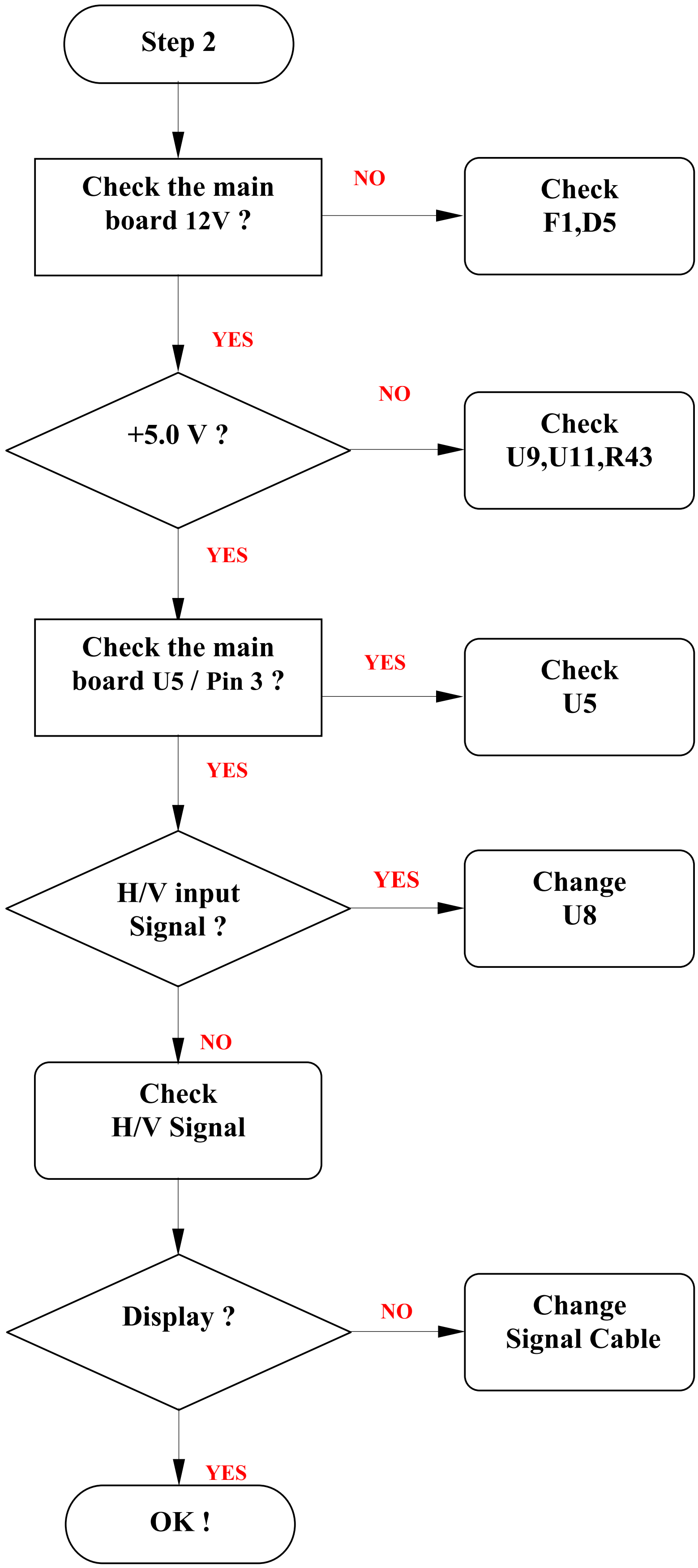
F. ADJUSTMENT PROCEDURE

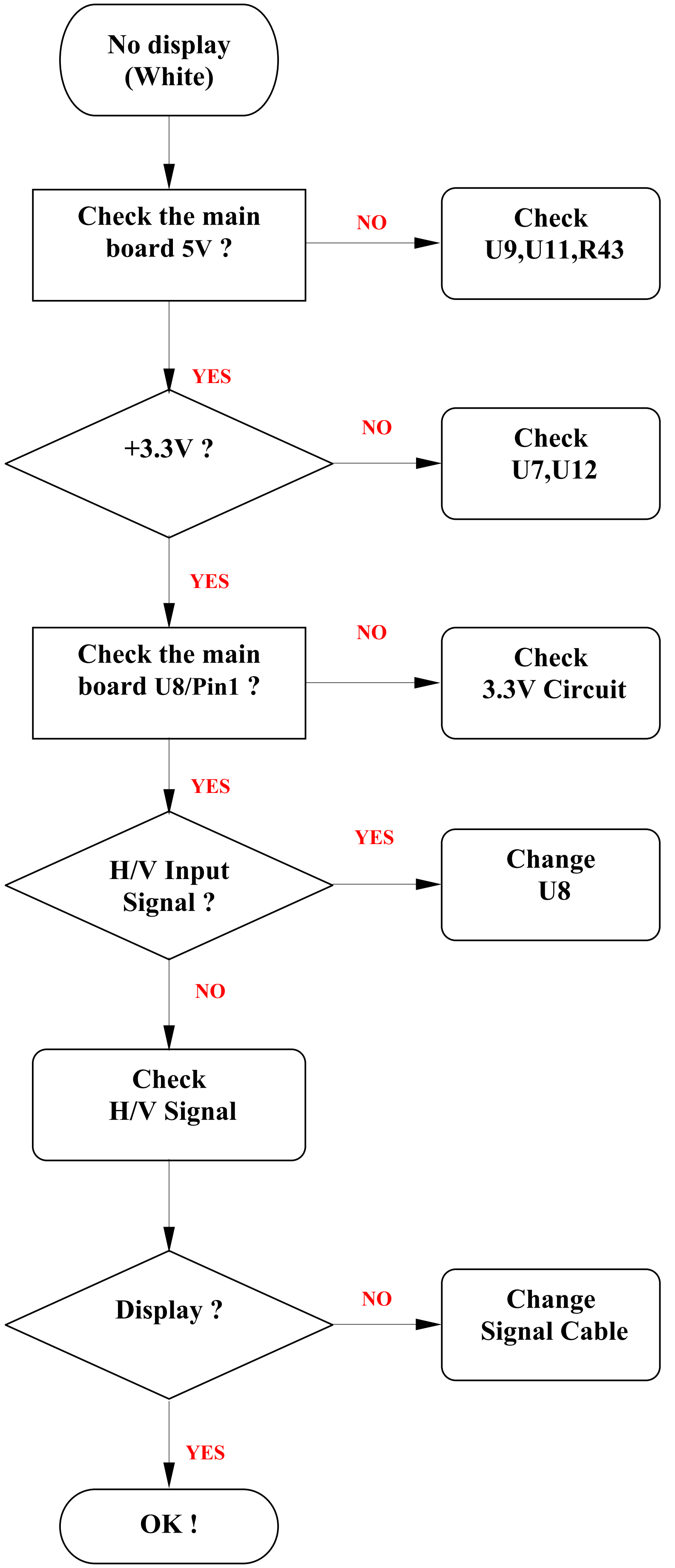
ITEM / Program Menu.		# Test Meter * Test Point @ Pattern	Operation	Check Value
A	**B+ Check**	# Digital Voltmeter * CN7 @ Crosshatch Pattern (31.5KHz,640x480)	1. Plug power cable into the adapter, check adapter power indicator light up green. 2. Make sure the voltage of the power plug (CN7) on the main PCB to the value shown at right.	12.0V ±0.2V
B	**Power Saving Check**	# Wattmeter # PC or Pattern generator @ Crosshatch Pattern (31.5KHz,640x480)	**1.** Unplug the signal cable into the monitor. **2.** Turn the power switch of the monitor **ON**. **3.** Check monitor power indicator light up orange. **4.** Make sure the wattmeter value shown at right. **5.** OSD will be display "**NO SIGNAL**" Picture.	‹ 5W
C	**Into Factory mode**	# PC or Pattern generator @ Crosshatch Pattern (31.5KHz,640x480)	**1.** Hold ‹ key,then turn the power switch of the monitor **OFF**. **2.** Hold › key,then turn the power switch of the monitor **ON**. **3.** You can into factory adjustment mode.	
D	**Auto mode Check**	# PC or Pattern generator @ Crosshatch Pattern (1024x768/60Hz)	**1.** Press and relese the **MENU** knob to activate the OSD menu. **2.** Move the OSD to the **AUTO** function,press **MENU** key auto adjuat display mode to its utmost performance according to VGA setting. **3.** In the event of the display image needs further adjustment	
E	**White Balance Adjust**	# PC or Pattern generator @ White Pattern (1024x768/60Hz)	**1.** Move the OSD to the **COLOR mode** (AUTO COLOR). **2.** set color is **9300°K** using the OSD,Check the value shown at below. Y = 220 x = 0.283 y = 0.297 **3.** set color is **6500°K** using the OSD,Check the value shown at right. Y = 220 x = 0.311 y = 0.329	Y = 220 ±0.1FL x = 0.283 ±0.01 y = 0.297 ±0.01
F	**OSD Language Setting**	# PC or Pattern generator	**1.** Move the OSD to the **LANGUAGE mode.** **2.** You can choose one of the eight language you need.	

G. TROUBLE SHOOTING HINTS




A
Check the connection of CN8 cable
Display ?
YES
OK !
NO
Change the main board
B
Hi / Lo under push power
NO
Change the main board
YES
Change the Inverter
Display ?
YES
OK !
NO
To Step 2


Step 2
Check the main board 12V ?
NO
Check F1,D5
YES
+5.0 V ?
NO
Check U9,U11,R43
YES
Check the main board U5 / Pin 3 ?
YES
Check U5
YES
H/V input Signal ?
YES
Change U8
NO
Check H/V Signal
Display ?
NO
Change Signal Cable
YES
OK !


No display
(White)
Check the main
board 5V ?
NO
Check
U9,U11,R43
YES
+3.3V ?
NO
Check
U7,U12
YES
Check the main
board U8/Pin1 ?
NO
Check
3.3V Circuit
YES
H/V Input
Signal ?
YES
Change
U8
NO
Check
H/V Signal
Display ?
NO
Change
Signal Cable
YES
OK !

H. REPLACEMENT PARTS LIST

AL532

NO	Parts No.	Description	Part Location	Q'ty
	988-1A0-1001C	AS-576 Pcking material+TCO99 SANYO		1
	002-001-TCO9	TCO99 Dcclaration		1
	002-L01-5EACER	AS576 User's Manul Acer logo		1
	003-101-TCO9	All Series TCO99 Label for Crton		1
	005-002-5EACER	AS576 Carton Acer Logo		1
	170-000-0848C	PE BAG 0.07mm 14*30.5cm.		1
	170-005-LCD5	LCD 15" PE Bag	For DC Line	1
	170-005-VM541	LT-541 PE Zipper Bag 300*200mm.	For LCD	1
	826-000-AS576	AS-576 Series pcking material	For Manual	1
	160-00L-AS576	AS576 Polyfom (L).		1
	160-00R-AS576	AS576 Polyfom (R).		1
	846-120-C0AL-AT	Adapter 12V 3A 36W		1
	003-H01-AS576	Acer AL532 TCO99 Label		1
	003-401-AS576	Acer AL532 Carton Label		1
	002-G00-ACER	NF-787NS warranty card for Europe"Acer"		1
	902-AS0-1001C	AS-576 TUV/GS/CE TCO99 Panel		1
	151-002-AS576	AS576 Rear cover Acer		1
	154-002-ABS6E	Plastic material ABS HB EM-006E		1
	110-4R0-20646	Screw M4*H8*Φ6.6mm		2
	154-001-AS576	AS576 Key TOP PC		1
	123-B02-AS576	AS576"Acer+AL532" logo		1
	820-001-5EST	AS576 stand ass'y		1
	123-701-AS576	AS576 Base neck AL or ZN.		1
	123-700-AS576	AS576 Base AL or ZN.		1
	155-001-AS576	Rubber 10*20 Black		4
	100-010-4033	Screw P4*10 ISO	BASE+NECK*3	3
	600-151-0404	Power cord for Germany 150cm White		1
	610-151-15RM-1	SH570/770Signal Cable UL20276 1.5m		1
	827-001-AS576	AS-576 LCD Panel Assy material for SANYO		1
	100-008-3013	Screw R3*8mm TP1	For Key Top*2	2
	100-010-4033	Screw P4*10 ISO	Neck+Hinge*2	2
	101-005-2032	Screw M2*5 ISO	Speaker*4	4
	101-005-3032	Screw M3.0*5 ISO.	Main PCB*4, Inverter*2	6
	103-006-4033	Screw F4*6mm ISO ZI3C	For Rear Cover+Hinge	1
	103-010-3012	Screw TAP-BASE.	Panel+Rear Plate*4	4
	105-006-3012	Screw T3*6mm TP1.	Control PCB*2	2
	105-006-4033-1	Screw T4*6mm ISO	Hinge+Rear Plate*2	2
	105-010-3012	SCREW T3*10mm TP1.	Rear Plate+Rear Cabinet*4	4
	110-4R0-20646	Screw M4*H8*Φ6.6mm	For Rear Cabinet*2	2
	154-002-AS576	AS576 Mylar Sheet T=0.5mm	For Panel C02RD0534	1

	506-178-E62BP-40	SMD CPU IC(WINBOND:W78E62BP-40	P1 for U2 ,Socket	1
	631-003-A014-C	Audio Cable 3.5Ø STERE0 to 2*RCA connector		1
	631-006-7020-T	SH570/770 1061#28 6P2.0mm	EMI	1
	631-008-G020-W	8Pin 1.5Pitch <-> 8Pin 1.5Pitch	CTR/B->M/B	1
	631-030-F576	30 PIN FFC Cable L182mm		1
	631-040-F576	40 PIN FFC Cable L193mm		1
	824-00Q-AY565L	AY565 Speaker Ass'y L		1
	154-000-SPCS	AY/CY Series Speaker Case 006 ABS HB		1
	710-20A-Y565	AY/CY-565 Speaker (8Ω/1.5W) 40*20mm		1
	631-002-904L	CY/AY-565 Speaker Wire 2.0mm pith		1
	824-00Q-AY565R	AY565 Speaker Ass'y R		1
	154-000-SPCS	AY/CY Series Speaker Case 006 ABS HB		1
	710-20A-Y565	AY/CY-565 Speaker (8Ω/1.5W) 40*20mm		1
	631-002-902R	HG562A R Speaker Wire 2.0-TIN.		1
	154-003-AS576	AS576 Mylar Sheet 168*126mm		1
	831-300-0100	Key 粘膠 (5000NS)		1
	831-750-0500	Tape 50mm Black	For Key Top*1	0.032
	121-000-AS576	Rear Plate SECC 1.0T.		1
	126-000-AS576	AS576 Hinge Steelness.		1
	600-151-5004-M	Power Cord for UK 150cm White		1
	600-151-5504	Power Crd for Swiss 150cm 白色.		1
	899-00M-AS576	AS576 Main PCB for SANYO Panel		1
	852-00M-AS576	AS576 Main PCB for SANYO Panel SMD		1
	200-100-AS576	AS576 Main Board	PCB	1
	281-031-20014	SMD RES 2K ohm 0603. 1%	R55	1
	281-031-62014	SMD RES 6.2K ohm 0603	R46	1
	281-035-0R04	SMD RES 0 ohm 0603 5%	L12,R21,S1,S2,R13,R14,R63,R64,R65	9
	281-035-1014	SMD RES 100 ohm 0603 5%	R42,R44,R45,R82	4
	281-035-1024	SMD RES 1K ohm 0603 5%	R6,R7,R24,R29,R30,R31,R33,R37,R73	9
	281-035-1034	SMD RES 10k ohm 0603 5%	R2,R8,R9,R15,R34,R35,R36,R48,R61,R70	10
	281-035-1054	SMD RES 1M ohm 0603	R53,R17	2
	281-035-1514	SMD RES 1M ohm 0603	R12	1
	281-035-2034	SMD RES 20K ohm 0603	R56,R59,R78,R80,R84,R87,R88,R90	8
	281-035-2224	SMD RES 2.2K ohm 0603	R22,R25,R40,R41,R52,R81,R83	7
	281-035-3304	SMD RES 33 ohm 0603	R3,R5,R47,R50,R51,L11	6
	281-035-3334	SMD RES 33K ohm 0603	R85,R57	2
	281-035-4704	SMD RES 47 ohm 0603	R72	1
	281-035-4724	SMD RES 4.7K ohm 0603	R4,R11,R16,R19,R20,R28,R32,R39	8
	281-035-4734	SMD RES 47K ohm 0603	R66,R77	2
	281-035-5104	SMD RES 51 ohm 0603	R68,R71	2
	281-035-5114	SMD RES 510 ohm 0603	R10	1
	281-035-7504	SMD RES 75 ohm 0603	R1,R74,R75,R76	4
	282-330-2454	SMD RES 33 ohm 1206 ARRAY	RP1,RP4,RP5,RP6,RP7,RP8,RP9,RP10,RP11,RP12, RP13,RP14,RP15,RP16	14
	282-472-2454	SND RES 4.7K ohm 1206 8P4R	RP3	1

	381-151-032554	SMD CC 150pF/25V NPO 0603	C77	1
	381-220-032554	SMD CC 22pF/25V NPO 0603	C17,C18,C56,C62,C70,C97,C98,C127	8
	381-301-032554	SMD CC 300pF/25V NPO 0603	C68	1
	381-330-032554	SMD CC 33pF/25V NPO 0603	C100,C131	2
	382-103-032564	SMD CC 0.01uF/25V X7R 0603	C47,C50,C60,C72,C74,C82,C86,C88,C90,C93,C107,C110,C112	13
	382-393-032564	SMD CC 0.039uF/25V X7R 0603	C84	1
	382-472-035064	SMD CC 4700pF/50V X7R	C87,C91,C94	3
	382-682-035064	SMD CC 6800P/50V X7R 0603	C135,C99	2
	385-104-032584	SMD CC 0.1uF/25V Y5V 0603	C1,C2,C3,C4,C5,C7,C8,C9,C10,C14,C15,C16,C20,C21,C23,C24,C25,C26,C28,C29,C33,C36,C41,C43,C44,C45,C46,C49,C51,C52,C53,C54,C55,C57,C58,C61,C63,C65,C66,C69,C78,C83,C85,C89,C92,C95,C96,C111,C115,C116,C117,C118,C125,C126	54
	385-105-041684	CHIP-C 1uF/16V Y5V 0805	C130,C132,C133	3
	481-LCC-0440	PLCC SOC 44PIN 1.27	U2	1
	485-415-S070	D-SUB 3R15 FEMALE 180D 7.0	CN9	1
	506-0AI-C1084	SMD IC AIC1084CM REG. 3.3V 5A	U7	1
	506-0AI-CX33	SMD IC AIC1720-33 100mA SOT89	U12	1
	506-0AP-4835	SMD IC APA4835RI AUDIO/ANPEC	U14	1
	506-2AI-C1578	SMD IC AIC1578	U11	1
	506-524-LC21	SMD IC 24LC21 MEMORY	U13	1
	506-5NM-24C16	SMD IC NM24C16M-8	U1	1
	506-774-LVT14	SMD IC 74LVT14 ADCW HI SPEED	U10	1
	506-800-358D	SMD IC LM358D S08 OP	U5	1
	506-SMA-SCOT-V	SMD IC SCALER CHIP MASCOT V MRT	U8	1
	518-02N-3904	TR. 2N3904 SMD	Q1,Q2,Q3,Q4,Q5	5
	518-1CE-9435	SMD IC CE9435A C08 MOSFET	U4,U9	2
	528-2BA-T54C	SMD DIODE BAT54C SOT23	Q6	1
	558-352-5000	SMD FUSE 1206 24V 5A	F1	1
	780-103-3000	SMD BEAD SBK160808-300Y (0603)	L13,L14	2
	780-104-6010	SMD BEAD SBK-201209T-601Y-S (0805)	L9,L10,L16,L20,L21	5
	780-107-1210	SMD BEAD MLB-321611-0120P-N1 (1206)	L1,L6,L8,L18	4
	630-030-9003A	FFC CNC 30P 0.5	CN6	1
	630-040-9003A	FFC CNC 40P 0.5	CN3	1
	780-103-8000A	SMD Bead FCM1608K-800T07	L22,L23,L24	3
	780-103-3000A	Bead FCM1608K-300T07	L25,L26,L27	3
	003-H02-ALL9	ALL AI PCB code 15*8MM Label (white)		1
	851-00M-AS576	AS576 Main PCB for SANYO Panel DIP		1
	232-R02-505T	WR-C-5W 0.020ohm 5%	R43	1
	330-100-16255	EC H5mm 10uF/16V 105C M TP	C104	1
	330-101-16255	EC H5mm 100uF/16V 105C M TP	C6,C37,C39,C42,C64,C75,C101,C124	8
	330-220-16255	EC H5mm 22uF/16V 105C 4*5	C22	1
	330-221-16255	EC H5mm 220uF/16V 105C M	C38,C40,C48,C59,C79,C119	6
	330-2R2-50275	EC H5mm 2.2uF/50V 105C	C123	1
	409-003-0110	DC Jack 3.5D SCD510	CN12	1

	409-003-0111	RCA Jack SCP606	CN11	1
	409-003-0112	RCA Jack SCP606	CN10	1
	504-000-6300L	Reset IC. V6300L TO92 (DIP)	TU2	1
	504-007-A431	KIA431/KEC	TU3	1
	520-030-B340-T	Schttky SB340 TP	D4	1
	531-110-49US	Crystal 11.0592MHz	X1	1
	531-120-49US	Crystal 12MHz	X2	1
	630-002-1008	Base Pitch 2.0 2Pin JWT A2001	CN7,CN8	2
	630-006-4002R	Base Pitch 2.0 6Pin	CN5	1
	630-008-C001	JST 1.5mm Header ZR S8B-ZR	CN2	1
	745-050-3072	Line Coil 5uH JBT0385 100805-4	L19	1
	745-470-20621	Choke 47UH@3A	L7	1
	152-000-SH570	TOSHIBA DC Jack Support Nylon.		1
	849-40X-AS576	Inverter 2 to 4 8ma E-MAX		1
	899-400-AS576	AS-576 Control PCB Ass'y.		1
	200-701-0576	AS576 Control Key PCB		1
	401-170-0220	Tact Switch H5mm	S1,S2,S3,S4,S5	5
	520-005-L937	LED 2Pin Blue/Yellow L937MBYW	D1	1
	630-008-C001	JST 1.5mm Header ZR S8B-ZR	J1	1
	705-350-2916	SANYO Panel TM150XG-26L06A.		1

Specification

Part Name:	LCD PANEL DC TO AC INVERTER	Page:	1	of	2
Model No:	PLCD2615404	Date:	AUG / 27 / 2002		

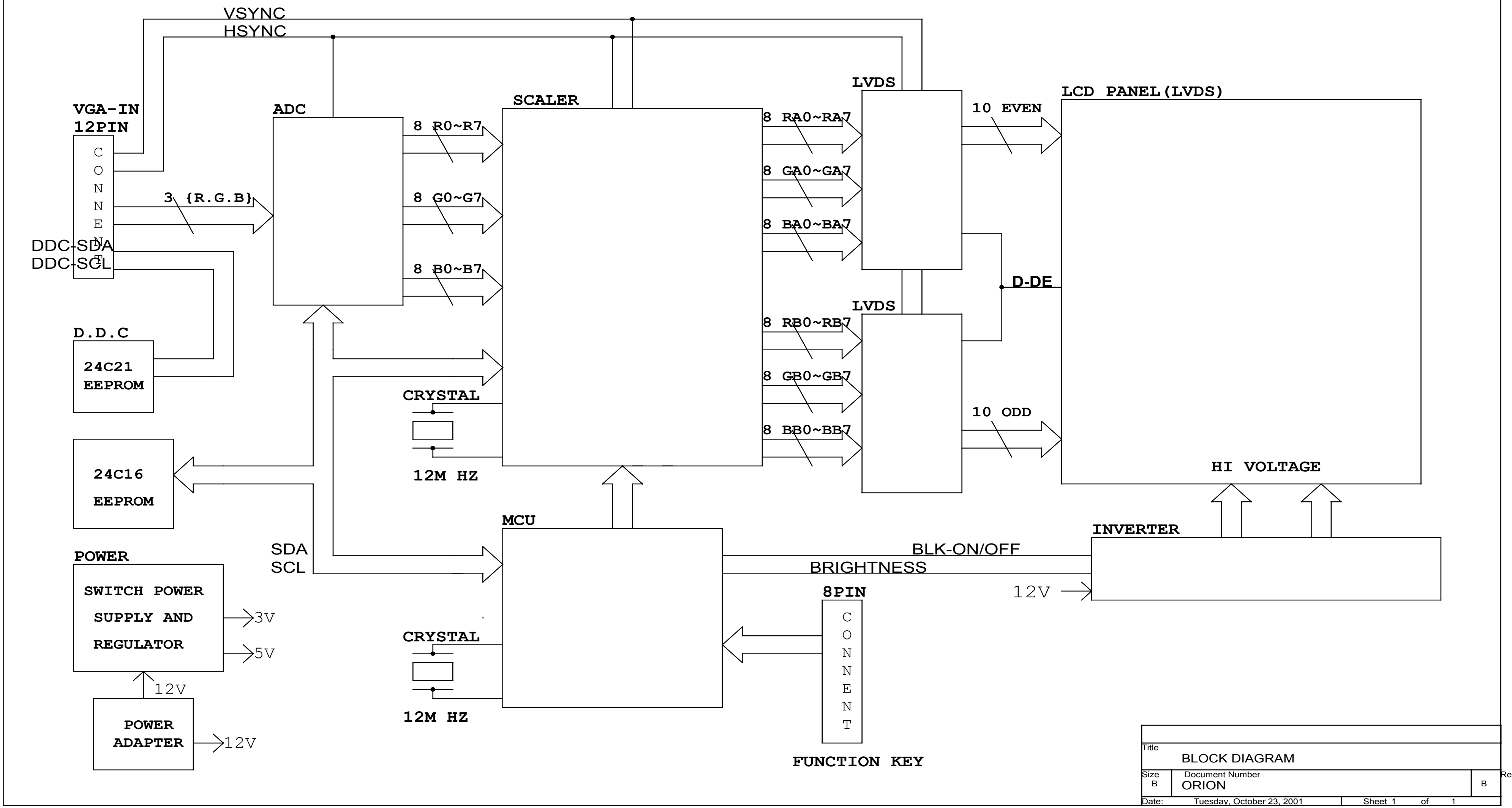
Location	Spec.	Number	MAKER	UL No.
C20	22uF/16V(FP1541 or TL1451) or 2.2uF/50V(BA9741)	1	TEAPO,SANYO HER MEI, FUHJYYU	
C5,C9,C14,C15,C16 ,C17,C18,C21,C25, C32,C33,	104/50V,0603	11	TDK,PHILIPS	
C3,C4	.15uF/100V,RSB	2	ARCOTRONICS,TAI YANG	
C6,C10,C27,C28	105/16V,0603	4	TDK,PHILIPS	
C8	470/50V,0603	1	TDK,PHILIPS	
C19,C26	100 uF/25V or 150uF/25V	2	SANYO,HER MEI,TEAPO	
C1,C2,C29,C30	22pF/3KV,DIP	4	TDK,PHILIPS	
CN1	2001J-06-RT(ORICH) S6B-PH-KL(JST)	1	ORICH,JST	E201214 E60389
CN2,CN4	3239,AWG24,3KV, 75mm+BHSMR-02VS	2	JST,REI HSING WIRE	E60389 E108485
CN3,CN5	3239,AWG24,3KV, 140mm+BHSMR-02VS	2	JST,REI HSING WIRE	E60389 E108485
D2,D3,D5,D6	RLS4148	4	ROHM,YING,TS	
D9,D11	SK24 or 2A/40V	2	ROHM,YING,TS	
D7,D8	ZENER 11V	2	ROHM,YING,TS	
R1,R2	1.1KΩ,1206	2	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA-I	
R6,R28,R29	100KΩ,0603	3	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA-I	
R3	3.6KΩ,0603	1	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA-I	
R11,R12	10KΩ,0603	2	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA-I	
R19,R21	510Ω,0603	2	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA-I	
R16,R17,R18,R20,R 25,R27	20KΩ,0603	6	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA-I	
R34,R35	560Ω,1206	2	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA-I	

Specification

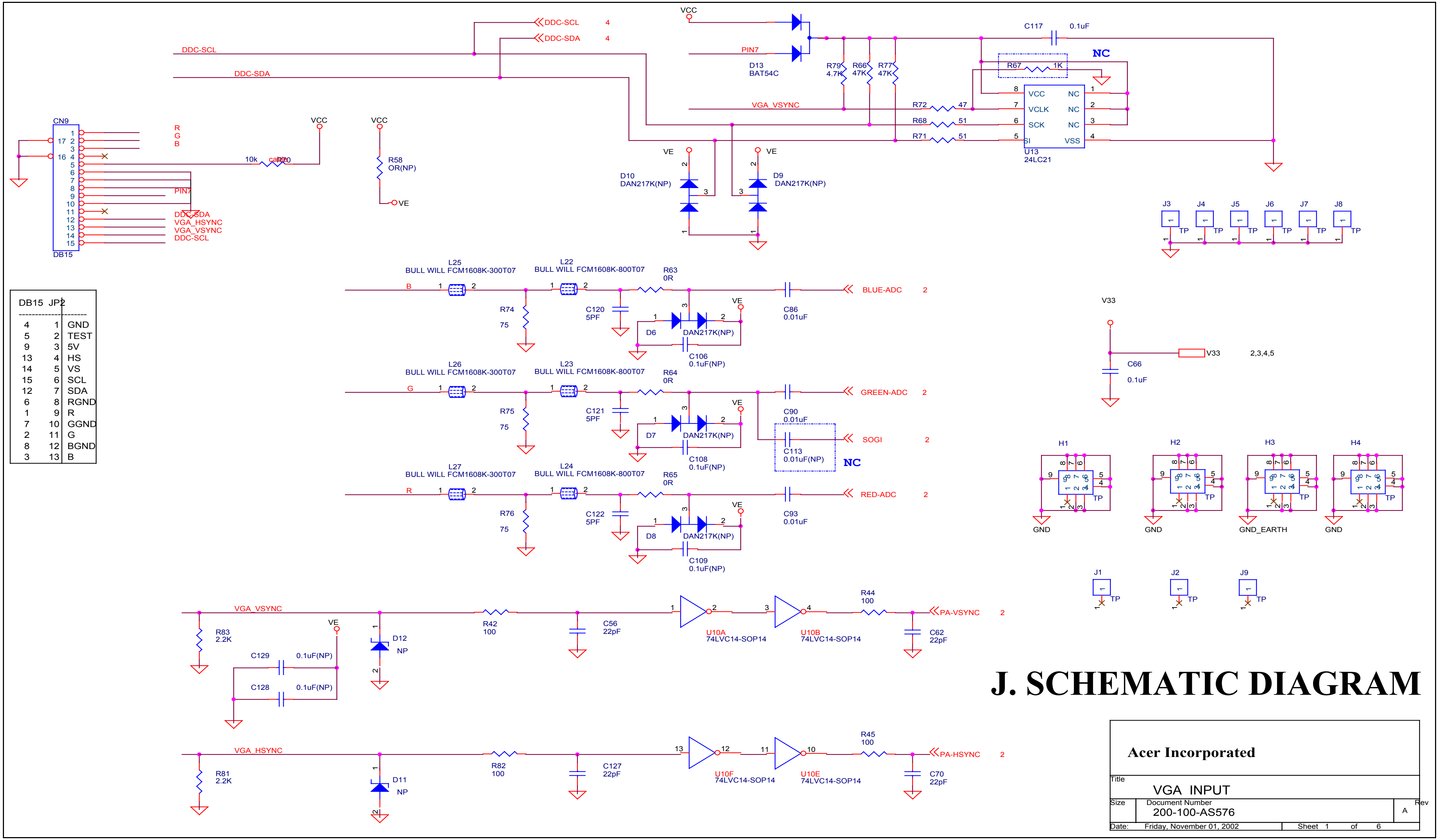
Part Name:	LCD PANEL DC TO AC INVERTER	Page:	2	of	2
Model No:	PLCD2615404	Date:	AUG / 27 / 2002		

Location	Spec.	Number	MAKER	UL No.
R13,R38	1KΩ,0603	2	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA-I	
R4,R30,R31	1MΩ,0603	3	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA-I	
R5	56KΩ,0805	1	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA-I	
R32,R33	1.2KΩ,0805	2	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA-I	
R41,R42	5.1KΩ,0603	2	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA-I	
R39,R40	30KΩ,0603	2	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA-I	
R14	10KΩ,0603(FP1451 or TL1451) or 8.2KΩ,0603(BA9741)	1	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA-I	
R7,R8,R9,R10,R43, R44R45,R46	910Ω,1206	8	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA-I	
Q1,Q2	SST2222A	2	ROHM,AUK	
Q3,Q4,Q5,Q6	2SC4672	4	ROHM,AUK	
Q7,Q8	9435A or F7205 or AO4403	2	CET,IR,FAIRCHILD,AO	
Q9,Q10,Q11	SST2907A	3	ROHM,AUK	
Q12	RK7002	1	ROHM,AUK	
L1,L2	ETI0008	2	EMAX	
F1	429003(Littelfuse) 3216FF-3A(Bussmann) 1206FA3A(SkyGate)	1	LITTEL,BUSSMAN, SKY GATE	E10480 E19180(N) E195987
U1	FP1451 or BA9741 or TL1451	1	FEELING, ROHM,TI	
PCB	PLCD2615404 CPC0051R0007E	1	CHIAN YOU,DM, HANT GIST,YUMMON, TONG JIANG(HUI YANG)	E112804(S) E74757 E177794 E168218(S) E201363
PT1,PT2	EST0082B,EFD-20L	2	EMAX	
MYLAR	MLTG75*141*0.125mT	1	GARWARE	E110983(M)
LABEL	849-40X-AS576 (Stick on the back of the PCB)	1	GARWARE	

I. BLOCK DIAGRAM



J. SCHEMATIC DIAGRAM



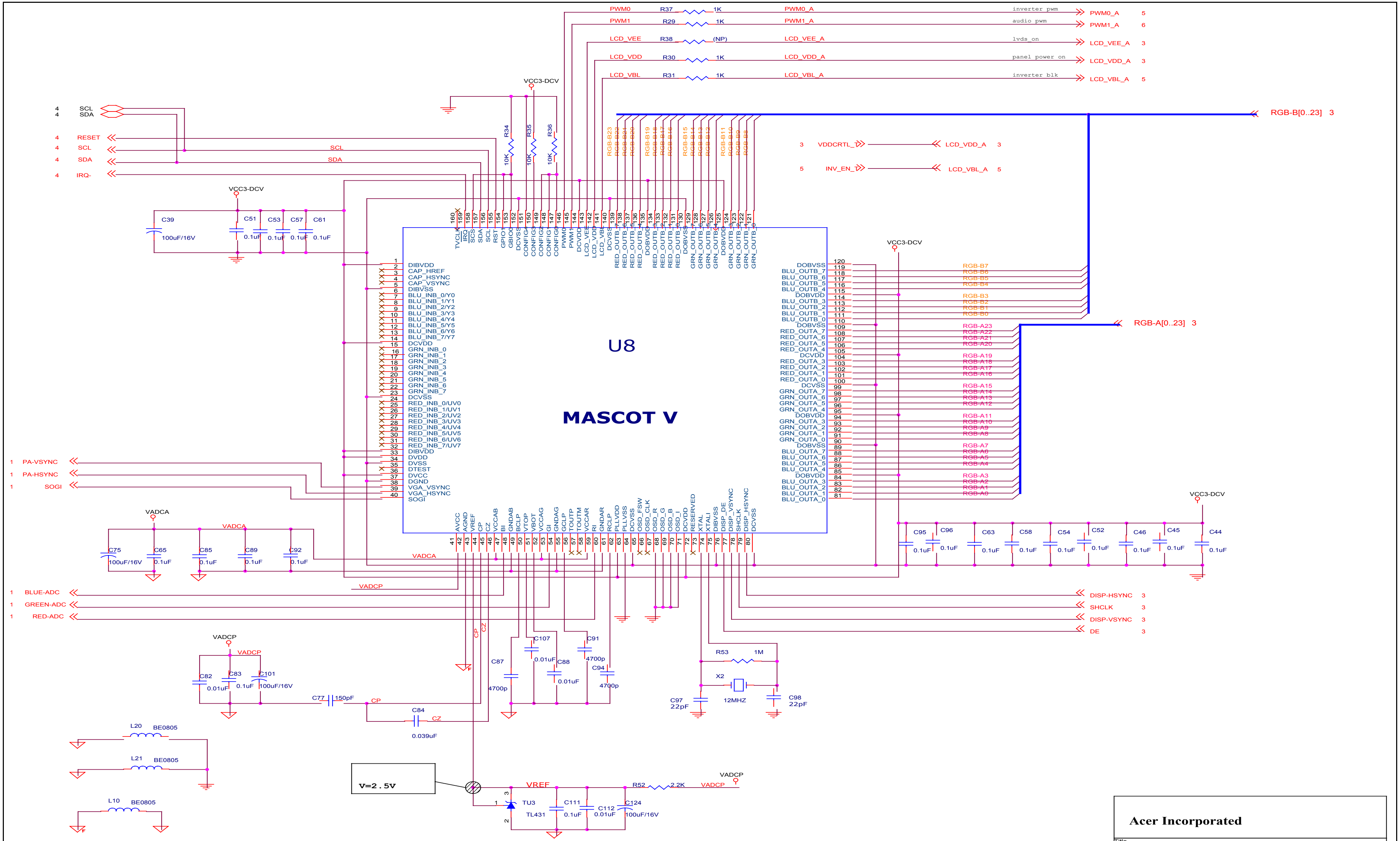
DB15	JP2	
4	1	GND
5	2	TEST
9	3	5V
13	4	HS
14	5	VS
15	6	SCL
12	7	SDA
6	8	RGND
1	9	R
7	10	GGND
2	11	G
8	12	BGND
3	13	B

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Title: VGA INPUT

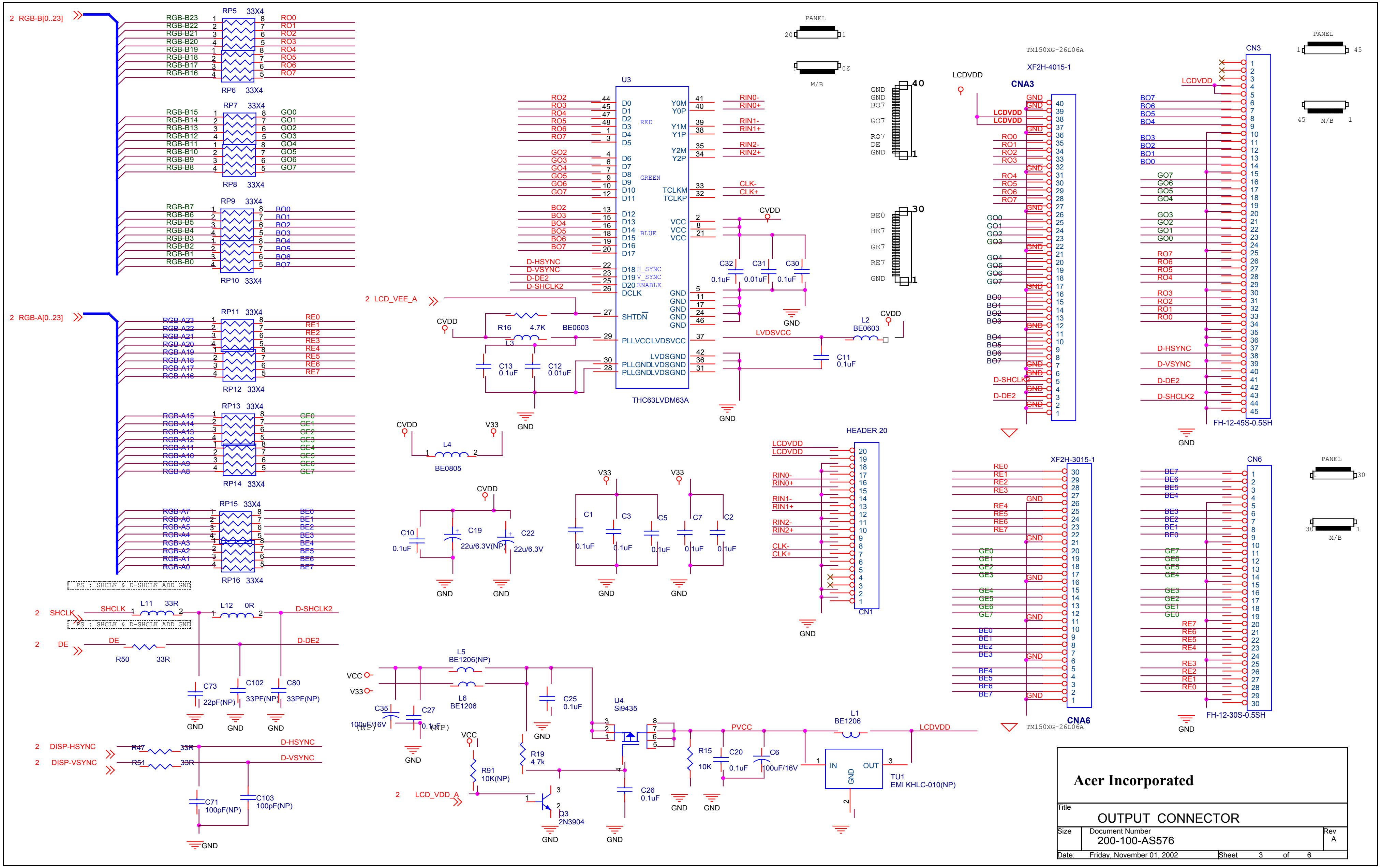
Size: | Document Number: 200-100-AS576 | Rev: A

Date: Friday, November 01, 2002 | Sheet 1 of 6



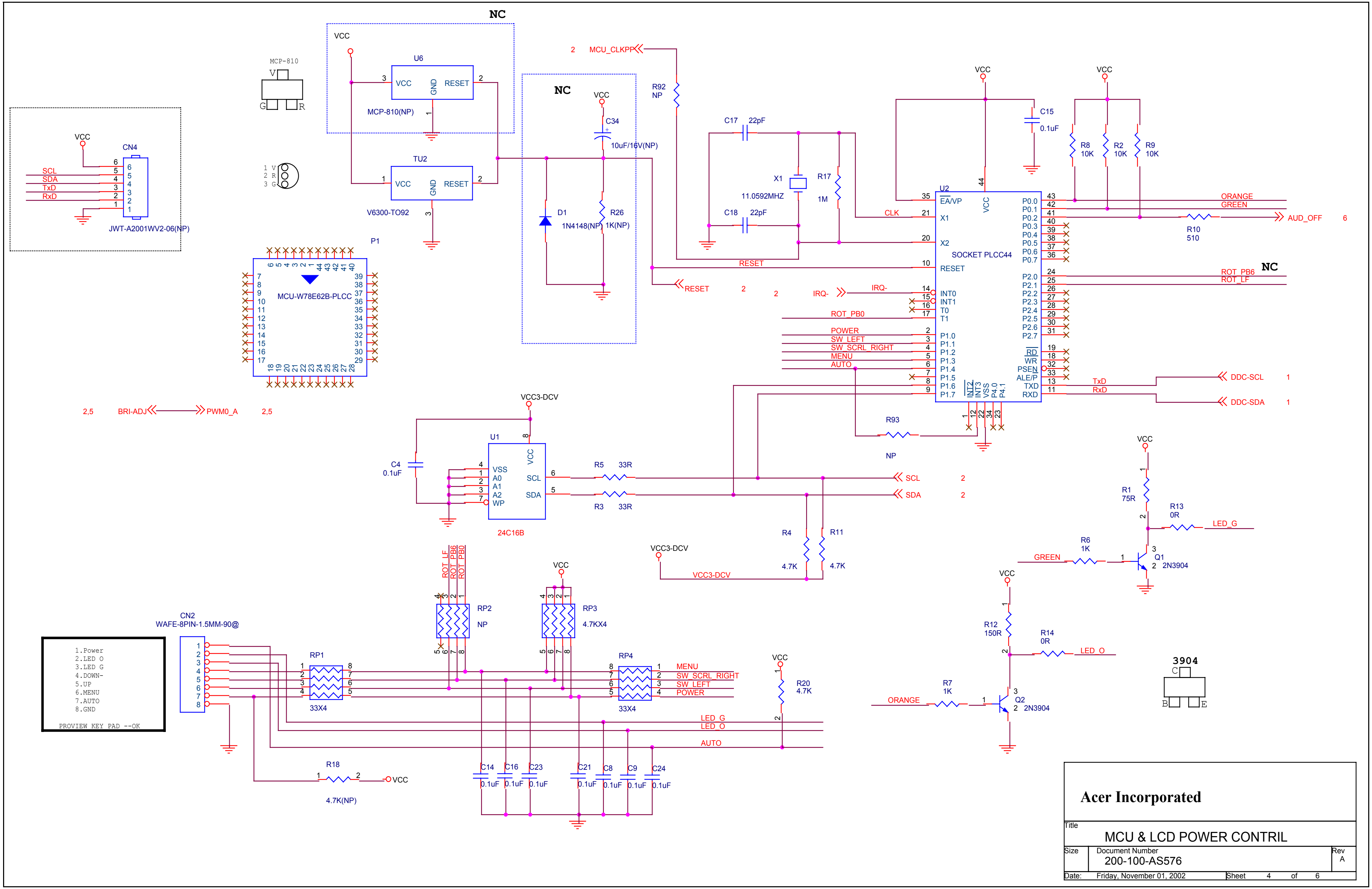
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Title	MASCOT V(A/D+Scaler)	
Size	Document Number 200-100-AS576	Rev A
Date: Friday, November 01, 2002	Sheet 2 of 6	



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Title	OUTPUT CONNECTOR	
Size	Document Number 200-100-AS576	Rev A
Date: Friday, November 01, 2002	Sheet 3 of 6	

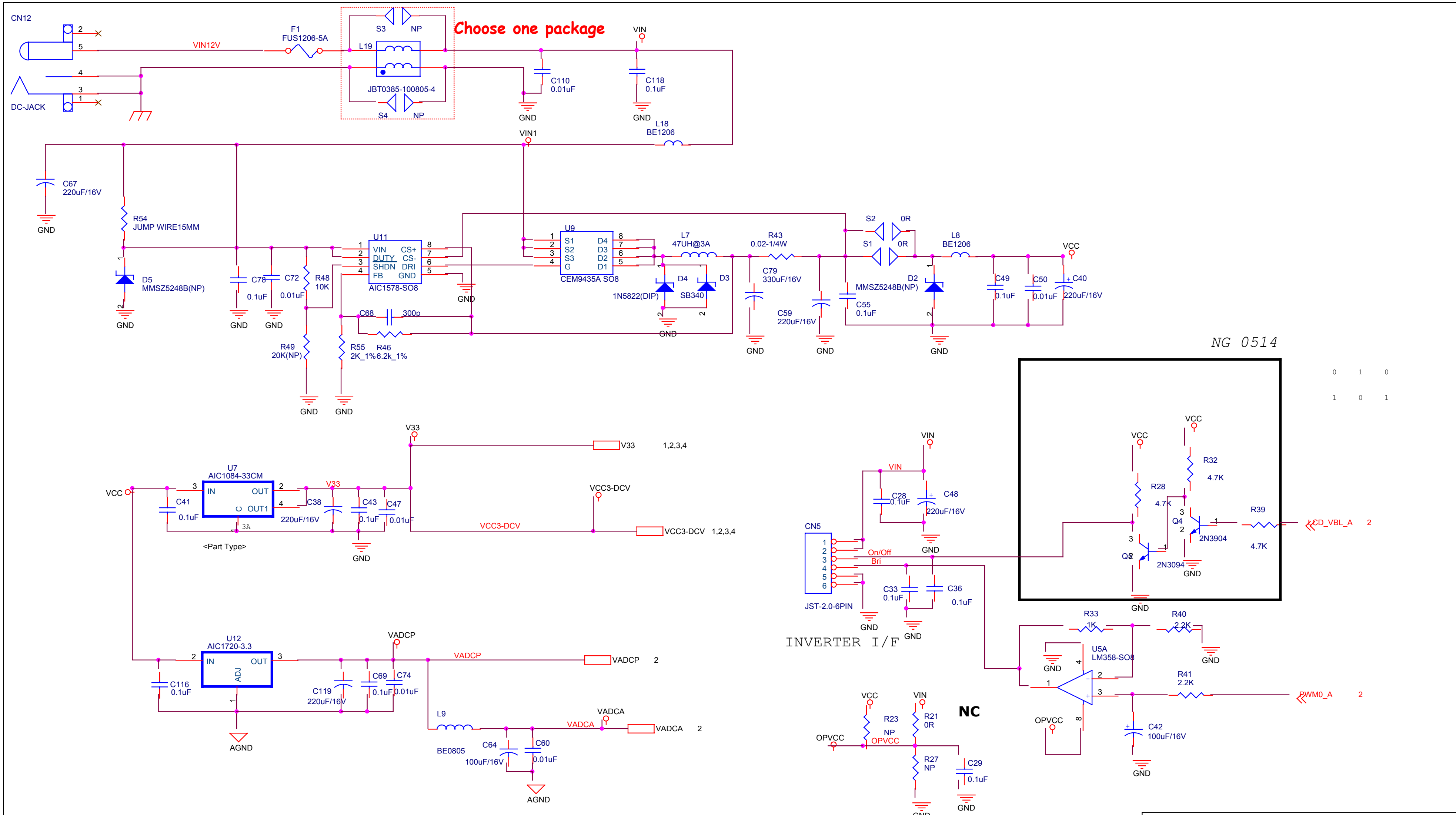


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Title: MCU & LCD POWER CONTRIL

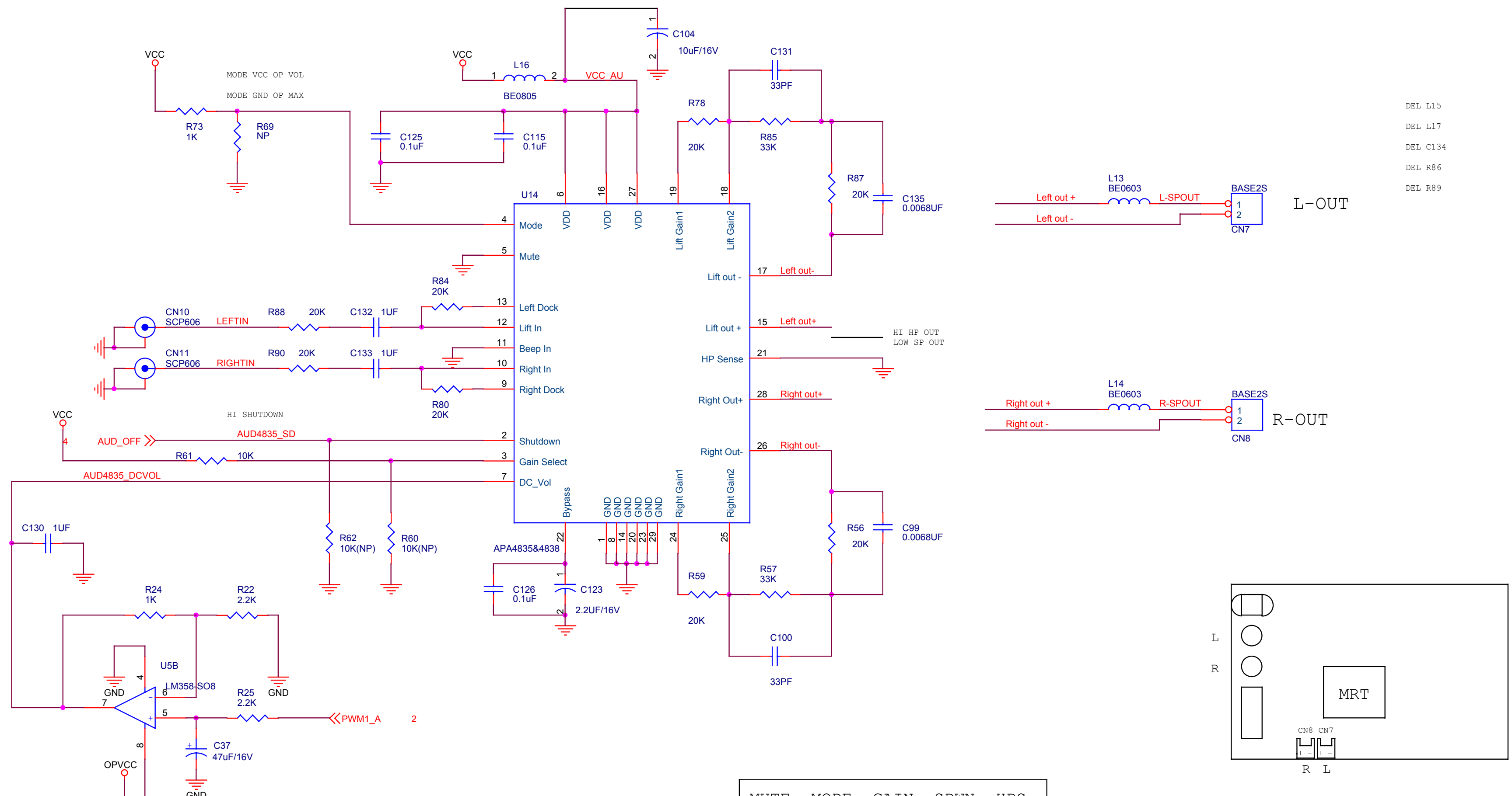
Size	Document Number	Rev
	200-100-AS576	A

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Title	POWER SUPPLY	
Size	Document Number 200-100-AS576	Rev A
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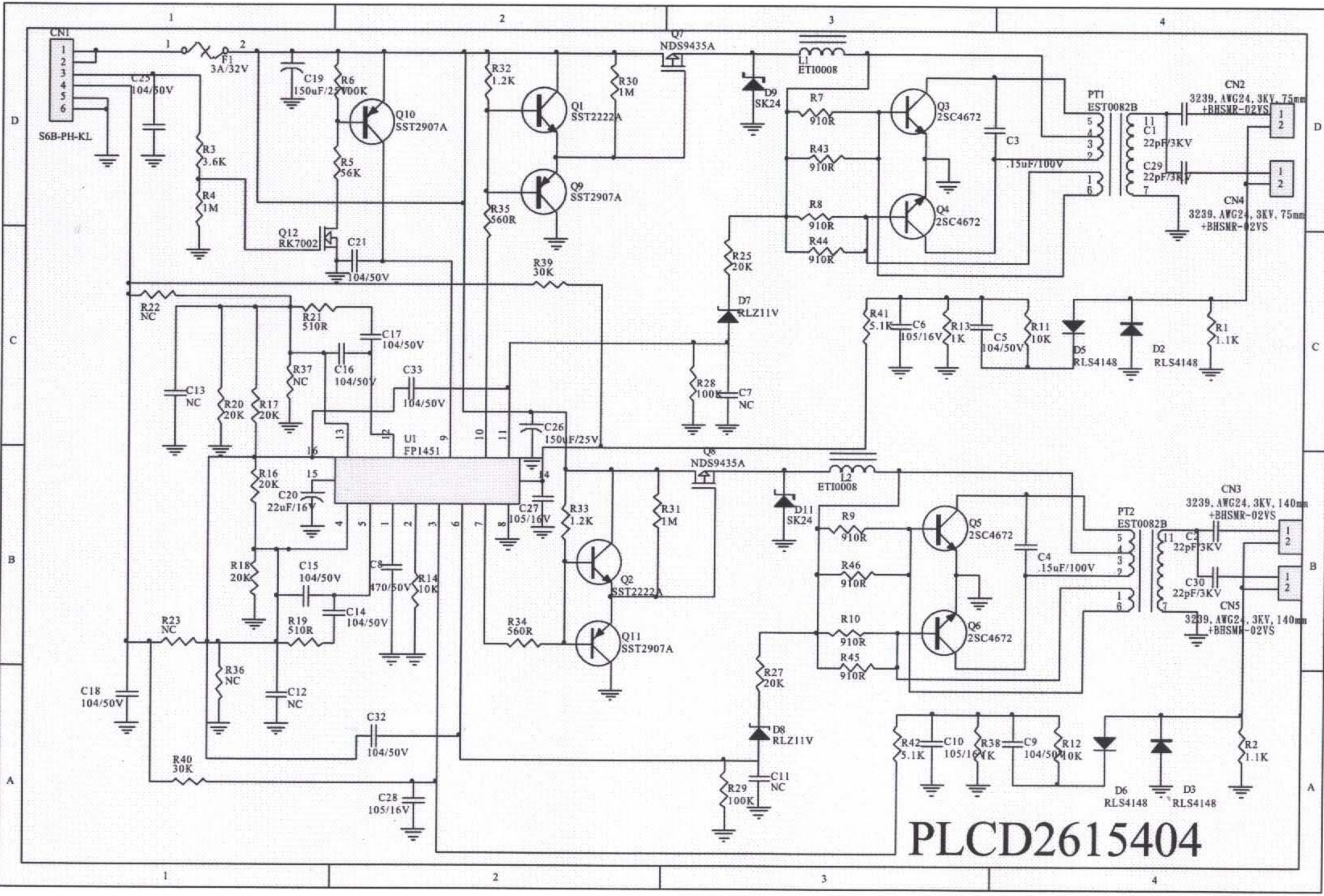
MUTE	MODE	GAIN	SDWN	HPS
0	1	1	0	0

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Title: AUDIO 4835

Size | Document Number: 200-100-AS576 | Rev: A

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CN1
S6B-PH-KL
F1
3A/32V
C25
104/50V
C19
150uF/25V
R6
100K
Q10
SST2907A
R5
56K
R3
3.6K
R4
1M
Q12
RK7002
C21
104/50V
R32
1.2K
Q1
SST2222A
Q9
SST2907A
R35
560R
R30
1M
Q7
NDS9435A
D9
SK24
L1
ETI0008
R7
910R
R43
910R
R8
910R
R44
910R
Q3
2SC4672
Q4
2SC4672
C3
.15uF/100V
PT1
EST0082B
C1
22pF/3KV
C29
22pF/3KV
CN2
3239, AWG24, 3KV, 75mm
+BHSMR-02VS
CN4
3239, AWG24, 3KV, 75mm
+BHSMR-02VS
R25
20K
D7
RLZ11V
R39
30K
R22
NC
R21
510R
C17
104/50V
C16
104/50V
R37
NC
C33
104/50V
C13
NC
R20
20K
R17
20K
R28
100K
C7
NC
R41
5.1K
C6
105/16V
R13
1K
C5
104/50V
R11
10K
D5
RLS4148
D2
RLS4148
R1
1.1K
U1
FP1451
C26
150uF/25V
C27
105/16V
R16
20K
C20
22uF/16V
R18
20K
C15
104/50V
C14
104/50V
C8
470/50V
R14
10K
R19
510R
R23
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R36
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C12
NC
C18
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Q2
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SK24
L2
ETI0008
R9
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R46
910R
R10
910R
R45
910R
Q5
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Q6
2SC4672
C4
.15uF/100V
PT2
EST0082B
C2
22pF/3KV
C30
22pF/3KV
CN3
3239, AWG24, 3KV, 140mm
+BHSMR-02VS
CN5
3239, AWG24, 3KV, 140mm
+BHSMR-02VS
R27
20K
D8
RLZ11V
C11
NC
R29
100K
C32
104/50V
R40
30K
C28
105/16V
R42
5.1K
C10
105/16V
R38
1K
C9
104/50V
R12
10K
D6
RLS4148
D3
RLS4148
R2
1.1K
PLCD2615404